



# Corps of Engineers Beach Nourishment Project Update

Sand, Beach and Dune Management Advisory Committee  
January 30, 2015

# Background:

## *Response to Sandy*

- “Disaster Relief Appropriations Act of 2013”
- City of Norfolk project included
- Limited Reevaluation Report for Willoughby Spit and Vicinity
- Entire shoreline between Little Creek Inlet and tip of Willoughby Spit (except for Cottage Line)
- East Ocean View, Central Ocean View (except Cottage Line) & Willoughby
- Federal funding authorized
- Project Partnership Agreement (PPA) signed

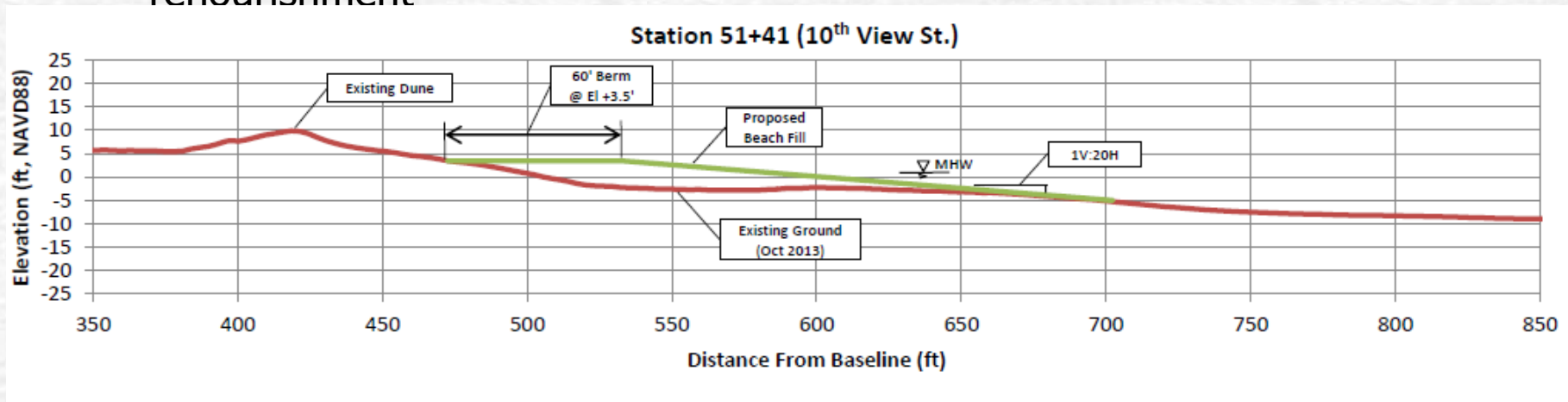
## **LIMITED REEVALUATION REPORT WILLOUGHBY SPIT AND VICINITY NORFOLK, VIRGINIA**

Prepared by:  
U.S. Army Corps of Engineers  
Norfolk District  
August 2013



# US Army Corps of Engineers Project

- Widen beach "berm" (recreational area) by approximately 60 feet (no sand placement in Cottage Line)
- Slope down to natural bottom at 20 to 1
- Sand source Thimble Shoal Auxiliary Channel
- No impact to dunes, City shall continue to maintain dune system
- Renourishment when widened "berm" erodes to 30 feet in width (half), estimated to occur every nine (9) years
- 1.2 million cubic yards initial nourishment; 445,000 cubic yards each renourishment



# Corps of Engineers Project Cost

- Estimated Initial Project Cost - \$18.4 million
- Estimated City Initial Cost Share \$5.5 million
- City match at 29% (6,000 lf west of Little Creek 100% federally funded because of jetty impact, remaining sections at 35%)
- Legislation provides upfront federal funding of entire initial project cost, and allows City match to be financed over 30 years
- Estimated Renourishment Project Cost (Every 9 years) - \$7.5 million, City matching share (29%) \$2.2 million – City match for renourishment must be paid up front.
- City will have to extend some existing storm water outfalls over the next several years because of additional sand placement, estimated City cost \$1.5 million total.
- City costs for extension of outfalls count as part of City matching obligation for beach nourishment project.

# Payment Schedule for City Match

- Sand placement scheduled to begin November 2015, completion in May 2016. Corps will certify project completion and audit project accounts summer 2016.
- Following certification and audit completion, Department of Treasury will compute market interest rate to be used for annual City matching payments. Annual rate is currently 3.375%.
- Payment period is 30 years. Corps estimates annual payments of \$300,000.
- Annual payment will be due within 30 days of notification from Corps that project and audit have been completed.
- Interest rate will be re-calculated every five (5) years.
- There is no penalty for early payment of matching fund obligations.

# Corps of Engineers Project Schedule

- Project Partnership Agreement (PPA) signed - January 28, 2015
- Internal Corps of Engineers review – February/March 2015
- Advertise Project – May 2015
- Project Award – June 2015
- Notice to Proceed (NTP) – July 2015
- Construction Start – November 15, 2015
- Project Completion – March 2016



# Other Ongoing City Beach Management Efforts

- Planned CIP appropriations for Control Beach Erosion in approved FY15 budget - \$500,000 each year FY15 thru FY19
- Required Ongoing Annual Beach Erosion Control Costs (Est.)
  - Dune Stabilization (\$130,000) – NTP mid-February
  - Wave Gauge Maintenance & Data Analysis (\$50,000)
  - Twice yearly beach survey (\$160,000)
  - Matching fund obligations for Initial Corps of Engineers Project (\$300,000)
  - Implement Beach Management Committee recommendations (\$100,000)
  - Total estimated ongoing costs required \$740,000
- Required re-nourishment matching funds approximately every 9 years \$2,200,000.